



## CONTINUING ELIGIBILITY INSPECTION (CEI) REPORT

FOR FLOOD CONTROL WORKS  
Honolulu Engineer District  
CEPOH-EC-T

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1. Project Name: Kaneohe - Kailua FCP and Allied Purposes Project
2. Date of Inspection: November 5 & 8, 2007
3. Inspection Personnel:

<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a. Dan Meyers	CEPOH-EC-T	438-8875
b. Jarrett Hara	CEPOH-EC-T	438-1681
c. Tyler Sugihara	DFM/Road Main Div.	484-7600
d. Gary Ikeda	DFM/Road Main Div.	247-3553
e. Jonel Smith	Ho'omaluhia DP&R	233-7325

4. Ratings for FY08  
Project Rating: "MS, Marginally Satisfactory"  
Project Condition Code: "MA, Minimally Acceptable"  
Project Status: "Active"

5. Discussion:

There was 16" of rain within the previous 24 hours of this inspection.

Ms. Jonel Smith, DP&R, participated in the "parks" portion of this CEI inspection on November 5, 2007. Mr. Tyler Sugihara, C&C, participated in the intake structure portion of this inspection with Dan Meyers and Jarrett Hara on November 8, 2007. Several discrepancies were noted and brought to the attention of the C&C representatives during the inspection. The maintenance easement needs to be surveyed-in, along the channel, and have all encroachments removed. The major deficiencies were as follows:

### DAM:



- a. Overview of Dam crest and access road, in good condition.

### INTAKE STRUCTURE:



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a. Monitor leaking from intake tower sluice gate frame.

No deficiencies noted at:

Joint # 1 - Sta. 0+18  
Joint # 2 - Sta. 0+38  
Joint # 3 - Sta. 0+58  
Joint # 4 - Sta. 0+78  
Joint # 5 - Sta. 0+98  
Joint # 6 - Sta. 1+18  
Joint # 7 - Sta. 1+38  
Joint # 8 - Sta. 1+58  
Joint # 9 - Sta. 1+78  
Joint # 10 - Sta. 1+98  
Joint # 11 - Sta. 2+18  
Joint # 12 - Sta. 2+38  
Joint # 13 - Sta. 2+58  
Joint # 14 - Sta. 2+78  
Joint # 15 - Sta. 2+98  
Joint # 16 - Sta. 3+18 Monitor Invert Dip  
Joint # 17 - Sta. 3+38  
Joint # 18 - Sta. 3+58  
Joint # 19 - Sta. 3+78  
Joint # 20 - Sta. 3+98  
Joint # 21 - Sta. 4+18  
Joint # 22 - Sta. 4+38  
Joint # 23 - Sta. 4+58  
Joint # 24 - Sta. 4+78  
Joint # 25 - Sta. 4+98  
Joint # 26 - Sta. 5+18  
Joint # 27 - Sta. 5+38 Last Joint



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b. Sta. 0+18, Joint # 1, typical of cement patch.



c. Sta. 0+38, Joint #2, typical of cement patch on the floor.



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d. Sta. 0+78, Joint #4.



e. Sta. 1+18, Joint #6.





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f. Sta. 1+58, Joint #8.



g. Sta. 3+18, Joint #16, monitor ponding at invert.



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h. Sta. 3+98, Joint #20.



i. Overview of intake tower outlet at silting basin.

**APPROACH CHANEL:**





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a. Overview of approach channel.



b. Approach Channel, right bank (RB), eroded area repaired (animal rutting) at hinge, institute an animal control program.





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c. Approach Channel transition to spillway in good condition.



d. Overview of maintenance access road A&B to spillway, woody vegetation on the right side slope was removed.

**SPILLWAY:**





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e. Overview of spillway from Ogee Weir, weep holes clean.



f. Spillway, invert drain line access plates removed for inspection.

**DAM EMBANKMENT:**



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g. Monitor eroding area adjacent to toe drain between Sta. 10+00 and Sta. 11+50. Remove tree stumps from side slope.



h. Sta. 13+00, Backfill eroded area adjacent toe drain ditch. Backfill new eroded area on the left bank side slope.





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- i. Monitor tree roots at covered portion of toe ditch, cut tree if roots impact concrete ditch.



- j. Overview of town side dam face.





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- k. Adjacent to piezometer 16, remove abandoned pvc pipe.



- l. Overview of reservoir and dam intake structure.



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m. Dam intake structure.



n. Fix broken Pedestal.

**DOWNSTREAM CHANNEL: RE-ESTABLISH MAINTENANCE RIGHT OF WAY AND REMOVE ALL ENCHROACHMENTS**





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- a. Sta. 12+00, LB, boat ramp, steps and mooring removed.



- b. approx. Sta. 11+50, LB, remove pin and concrete cap.





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c. Sta. 11+00, LB, vegetation removed from the inland side of the levee side slope.



d. 10+00, CMU structure and vegetation from the inland side of the levee side slope was removed. Re-establish maintenance easement right of way.



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e. Sta. 8+00, LB, boat ramp, steps and mooring removed.



f. approx. Sta. 7+00, LB, remove encroachment and re-establish easement for levee and maintenance right of way.





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g. Sta. 4+40, LB, Interior drain inlet # 2.



h. Sta. 4+40, RB, remove plant from side slope.





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- i. Sta. 3+00, LB, boat ramp removed and side slope restored.



- j. Overview of LB, looking towards the end of the project.



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k. LB, end of project, remove vegetation.

**PARK**

**Roads and Parking Area:**



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- a. Main Road at front gate, pot holes have been patched however, resurfacing of road need to be done within the next 3 years.



- b. Major road resurfacing required near back gate.

**FENCING AND SIGNS:** No deficiencies noted.

**GROUNDS, IMPROVED & SEMI-IMPROVED:**





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- a. Culvert # 1, continue to remove debris under culvert and vegetation up stream side of culvert.



- b. "animal rutting area" was fixed. Institute an animal control program.



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c. Culvert # 2, vegetation on the upstream side of the culvert was removed.



d. Culvert # 3, cut back branch.





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e. Culvert # 4, in good condition.



f. Culvert # 5, in good condition.



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g. Culvert # 6, continue to maintain.



h. Typical road conditions, repairs required.





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- i. Culvert # 7, remove debris and continue to maintain.



- j. Culvert # 8, in good condition.



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- k. Culvert # 9, RCP w/ 2" PVC in good condition, remove dead tree.



- l. Culvert # 10 in good condition, remove vegetation upstream and downstream.

**WATER SUPPLY, FIRE HYDRANTS:** No deficiencies noted.

**Mechanical Equipment:** No deficiencies noted.

**BUILDINGS:**





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a. Kahua Nui Area Restroom, (mauka) in good condition.



b. Kahua Nui Area Restroom (makai) repair sidewalk, restrooms in good condition.



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c. Kahua Hau Area Restroom in good condition.



d. Kahua Kukui Area Restroom, in good condition.





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e. Kahua Lehua Area Restroom, fix water fountain on men's side.



f. Kahau Kuou # 1 Restroom, in good condition.



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g. Kahau Kuou #2, restroom in good condition.



h. Day Use Area, replace light fixtures with florescent light bulbs.





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- i. Day Use Restrooms, in good condition.

**MITIGATION AREA:**



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- a. Sluice gate inoperable, repair gate.



- b. Mitigation area levee, continue to maintain.

### 6. Findings/Conclusions:





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IAW ER 500-1-1, ( dtd 30 September 2001 ), and based on this CEI, the Project Condition Code is MINIMALLY ACCEPTABLE and the project is considered ACTIVE in the Rehabilitation and Inspection Program.

Program to replace intake tower sluice gate frame. Sluice gate frame needs to be replaced within the next 2 years. There is currently a steady leak at the sluice gate. It looks like the leak will only get worse as time passes. The sluice gate should be replaced as soon as possible.

Program to resurface road. The road in Ho'omaluhia Park should be resurfaced within the next 3 years. Keep patching the major potholes but a program to attain funds to resurface the entire road in the park should be started soon.

Signed: \_\_\_\_\_  
Jarrett Hara, CEPOH-EC-T

Signed: \_\_\_\_\_  
Dan Meyers, CEPOH-EC-T

Signed: \_\_\_\_\_  
James Pennaz, P.E., CH, CEPOH-EC-T

### Enclosure(s)

1. Info Paper
2. Site Plan of entire project
3. Site Plan of flood control channel



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### KANEOHE-KAILUA AREA, OAHU, HAWAII

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1987

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized by the Flood Control Act of 1970. Provides for a dam and reservoir about 3.2 miles above the mouth of Kaneohe Stream on the tributary Kamooalii Stream. The project consists of an earth-fill dam 80 feet high with a crest length of about 2,300 feet, about 1,274 feet of channel improvements, a concrete side-channel and chute spillway, and reservoir with storage of 2,500 acre-feet of which 500 acre-feet would be for sediment reserve and recreation use and 2,000 acre-feet for flood control.

#### PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in May 1986. Erosion damage repair work on Culvert #7 was completed in March 1984. Contractor claims for defective specifications and suspension of work on spillway were settled in September 1985.

Work Remaining: None.

#### COST OF CONSTRUCTION:

<u>Completed Works:</u>	<u>New Work</u>
United States Funds	\$19,884,100
Contributed Funds (Required)	<u>5,668,300</u>
Total Costs	\$25,552,400

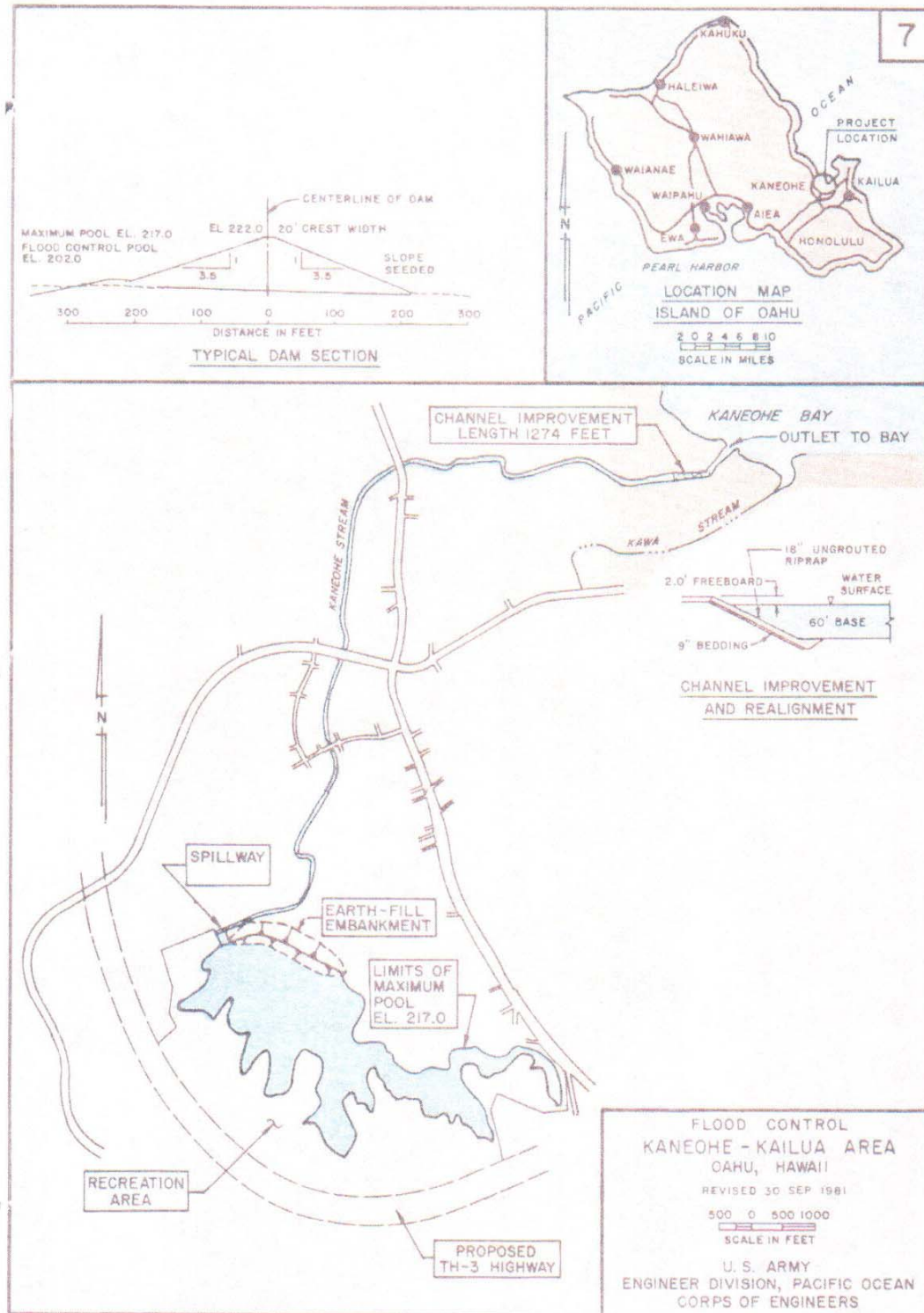




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